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NOTES/COMMENTS:



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FACSIMILE TRANSMITTAL SHEET DATE: October 25, 2006 FILE NUMBER: 03226/073001 FAX NUMBER: 571-273-3715 (Examiner Courtesy 571-273-8300 (Central Fax) Examiner T. H. Stevens FROM: Seema M. Mehta PAGES INCLUDING COVER: 7 Proposed Claim Amendments to be entered with filed RCE and Reasons for Examiner Interview for Application Serial No. 10/010,238 FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE RECYCLE ☐ PLEASE RÉPLY

PTOL-413A (09-04) Approved for use through 07/31/2008. OMB 0851-0031

	Applica		u.s. Patent and Trademark Off view Request For		ENT OF COMMERC	
Application No.: 10 Examiner: T. H. St			43 First Named Applicant: Min Art Unit: 2123 Status of Applicati		riam G. Blatt ion: Published	
Tentative Participants (1) Examiner Stev	vens	Seema M. (2) _56,235	Mehta, Reg. No.			
(3) Proposed Date of Inter	view: TBD		Proposed Time: TBD	— (AM/PM)		
Type of Interview Req (1) XX Telephonic Exhibit To Be Shown of	(2) Personal		ideo Conference			
If yes, provide brief de	scription:	J				
Issues To Be Discussed						
issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed	
(1) 103(a)	1, 5, 10	Hurd				
(2)	· · · · · · · · · · · · · · · · · · ·					
(3)						
(4)						
X Continuation St	neet Attached		·			
Brief Description of Ar See attached Inte		ented: d Proposed Claim A	mendments			
NOTE: This form should be c §713.01). This application will t	ompleted by applic	issue because of appli	he examiner in advance cant's failure to submit the substance of this in	of the interview	of this	
Applicant/Applicant's Representative Signature			Examine	r/SPE Signature		
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Registrat	56,235 tion Number, if appl	cable	·			

Examiner Interview Agenda

Application Serial No. 10/010,238 To: Examiner T. H. Stevens

Date and Time of Examiner Interview: TBD

During the Examiner Interview, Applicant would like to discuss the following:

- 1. A review of the claimed invention;
- 2. The attached proposed claim amendments;
- 3. Prior Art referenced Hurd;

Applicant would like to discuss how the cited portion of Hurd (i.e., Table 2) teaches power values that are reported in the single cycle summary data, multi-cycle summary data, and multi-cycle derivative summary data. Applicant's reading of Hurd suggests that Hurd only teaches current values shown during particular types of instructions that are performed on the processor. It appears that Hurd fails to teach or suggest power values such as those recited in the proposed amended claims.

Thus, Applicant would like to discuss whether the proposed claim amendments overcome the Boblio and Hurd combination in order to move this application forward in prosecution.

In view of the Request for Continued Examination filed in this case on 10/20/06, which stated that the RCE submission would correspond to claim amendments decided via an Examiner Interview, Applicant hereby attaches an Applicant Initiated Interview Request Form.

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AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

(Currently Amended) A method for analyzing a power modeling simulation, comprising:
 receiving simulated power value data from [[the]] a power modeling simulator, wherein
 the power value data comprises at least one type of power value[[s]] selected
 from MAX, TYP, MIN, and TypMax;

generating a set of summary data from the power value data[[,]]; and reporting the summary data,

wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles, and

wherein each type of the summary data comprises at least one characteristic factor.

2. (Currently Amended) The method of claim 1, wherein:

the step for generating summary data includes generating multi-cycle summary data, comprising:

calculating a value of a single-cycle derivative,

wherein the single-cycle derivative is a derivative of two particular power data in a set of successive cycles.

- 3. (Original) The method of claim 2, wherein the single-cycle derivative is a peak single-cycle derivative.
- 4. (Cancelled)
- (Currently Amended) A method of analyzing power modeling simulation for designing a chip, comprising:

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obtaining a plurality of power value data from a power modeling simulator, wherein the plurality of power values comprises at least one type of power value selected from MAX, TYP, MIN, and TypMax;

generating a set of summary data; and

reporting the summary data as parameters for chip design,

wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles, and

wherein each type of the summary data comprises at least one characteristic factor.

 (Currently Amended) The method of claim 5, wherein the step for generating summary data comprises:

calculating a multiple-cycle power average,

wherein the multi-cycle power average is an average of the power value data over a plurality of cycles.

- 7. (Original) The method of claim 6, wherein a length of the plurality of cycles is fixed.
- 8. (Previously Presented) The method of claim 6, wherein generating summary data further comprises:

calculating a peak value of the multi-cycle power average.

- 9. (Cancelled)
- 10. (Currently Amended) A method of data analysis for a power modeling simulation, comprising:

obtaining a plurality of power value data from [[the]] a power modeling simulator, wherein the power value data comprises at least one type of power value selected from MIN, TYP, MAX, and TypMax;

generating a set of summary data from the power value data; analyzing the summary data according to a design requirement; and reporting a result of the analyzing step;

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wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles, and

wherein each type of the summary data comprises at least one characteristic factor.

- 11. (Original) The method of claim 10, further comprising: calculating a value of the multi-cycle derivative.
- 12. (Original) The method of claim 11, further comprising:
 - setting a threshold value as a reference value for determining the end of a current multicycle derivative;
 - calculating a single-cycle derivative; calculating a derivative of a start value and an end value of associated power data in the current multi-cycle derivative;
 - calculating a ratio of the value of the single-cycle derivative over the value of a derivative of the start value and the end values of associated power data derivative when the direction of the current multi-cycle derivative changes; and
 - generating the value and its cycle of the multi-cycle derivative when the ratio becomes larger than the threshold value, wherein the single-cycle derivative is a derivative of two particular power data in successive cycles.
- 13. (Original) The method of claim 11, further comprising:
 - setting a threshold value that is a reference value for determining the end of a current multi-cycle derivative;
 - calculating a difference from a highest value to a current value of the power data in the current multi-cycle derivative;
 - calculating a difference from the highest value to a start value of the power data in the current multi-cycle derivative;
 - calculating a ratio of the difference from the highest value to the current value of the power data over the difference from the highest value to the start value of the power data in the current multi-cycle derivative when the direction of the current multi-cycle derivative changes; and

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generating the end-value and its end-cycle of the current multi-cycle derivative when the ratio becomes larger than the threshold value.

- 14. (Previously Presented) The method of claim 1, further comprising:
 - applying an automatic detection scheme to detect an end for an multi-cycle derivative (MCD), if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from single-cycle derivative (SCD)/MCD, DROP/TOP, and a combination thereof.
- 15. (Previously Presented) The method of claim 5, further comprising:
 - applying an automatic detection scheme to detect an end for an multi-cycle derivative, if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from single-cycle derivative (SCD)/MCD, DROP/TOP, and a combination thereof.
- 16. (Previously Presented) The method of claim 10, further comprising:
 - applying an automatic detection scheme to detect an end for an multi-cycle derivative, if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from <u>single-cycle derivative</u> (SCD)/MCD, DROP/TOP, and a combination thereof.